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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,563	12/05/2003		Tae-Ahn Jahng	559552000200	8911
25225	7590	04/05/2005		EXAMINER	
MORRISO	N & FO	ERSTER LLP	PHILOGENE, PEDRO		
3811 VALL SUITE 500	EY CEN	TRE DRIVE	ART UNIT	PAPER NUMBER	
	SAN DIEGO, CA 92130-2332			3732	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/728,563	JAHNG, TAE-AHN					
Office Action Summary	Examiner	Art Unit					
	Pedro Philogene	3732					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by sI Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, ma I. In reply within the statutory minimum o' Iriod will apply and will expire SIX (6) I Italute, cause the application to becom	y a reply be timely filed  thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication. e ABANDONED(35 U.S.C. § 133).					
Status							
1) $\boxtimes$ Responsive to communication(s) filed on $\underline{0}$	<u> 5 December 2003</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠	This action is non-final.						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)  Claim(s) 1-14 is/are pending in the applica 4a) Of the above claim(s) is/are with 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-14 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction are	drawn from consideration.						
Application Papers							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by th	e Examiner. Note the attac	hed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119	•	•					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received priority documents have b ureau (PCT Rule 17.2(a)).	in Application No een received in this National Stage					
Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948  3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 07/02/04.	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)					

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 5-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Justis et al. (6,530,929).

With respect to claim 5, Justis et al disclose a marking and guidance system for use during spinal surgery, comprising a means (280) for marking a location of an entry point on a vertebral bone for subsequent implantation of a securing member (61) of a spinal fixation device.

With respect to claims 6,7, Justis et al disclose all the limitations, as set forth in column 12, lines 44-67, column 13, lines 1-55.

With respect to claims 8-11, the method steps ass et forth, would have been inherently carried out in the operation of the device, as set forth above.

With respect to claim 12, Justis et al disclose a system for marking and guiding the insertion of securing members of a spinal fixation device, comprising means, as set forth in column 12, lines 44-58, for inserting a marking pin at or near a desired entry point on a vertebral bone of a patient's spinal column; means for retracting retracting tissue outwardlyand away from the marking pin so as to provide a surgical field of view

for insertion of securing member of a spinal fixation device; ass et forth in column 12, lines 59-67, column 13, lines 1-19; means (100) for inserting the securing member (61) into the vertebral bone of the entry point by the marking pin (280).

With respect to claims 13,14, Justis et al disclose all the limitations, asset forth in column 12, lines 44-67, column 13, lines 1-55.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kambin (4,573,448) in view of Mangiardi et al. (5,665,092).

With respect to claims 1-3, Kambin discloses a marking and guidance system for use during spinal fixation surgery comprising a guide tube (12) comprising a hollow cylindrical channel; a penetrating device (16) positioned within the hollow channel and having a sharp tip (FIG.2) a marking pin (18) to be inserted through the cylindrical channel of the guide pin, after removal of the penetrating device.

It is noted that Kambin did not teach of a pushing device to be inserted through the cylindrical channel of the guide tube and provide a driving force to the marking pin; as claimed by applicant. However, in a similar art, Mangiardi et al., evidence the use of a marking pin with a pusher device (2,4), so that the marking pin can be attached, detachably, and fixedly in rotation to the proximal end of the pushing device. Application/Control Number: 10/728,563

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Therefore, given the teaching of Mangiardi et al, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Kambin, as taught by Mangiardi et al., so that the marking pin can be attached, detachably, and fixedly in rotation to the proximal end of the pushing device.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kambin (4,573,448) in view of Mangiardi et al. (5,665,092) in view of Justis et al. (6,530,929).

With respect to claim 4, it is noted that the above combination of references did not teach of a securing device comprising a pedicle screw having a axial channel for receiving the second end of the and at least a portion of the marking pin therein; as claimed by applicant, However, in a similar art, Justis et al evidence the use of a pedicle screw with a longitudinal axial channel for receiving the end of the marking pin to maintain the pedicle screw in an aligned position.

Therefore, given the teaching of Justis, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a pedicle screw in the device of Kambin/Mangiardi, as taught by Justis et al to maintain the pedicle screw in an aligned position.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6,468,279	10-2002	Reo
6,821,277	11-2004	Teitelbaum
6,596,008	07-2003	Kambin

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6,575,979

06-2003

Cragg

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (571) 272-4716. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro Philogene March 31, 2005

PEDRO PHILOGENE